



	Indiana Academic Standard for Indiana Academic Mathematics Standard Common Core State Standard Differences From Previous Standards						
	Probability and Statistics Mathematics	Adopted 2000	for Mathematics	Differences from Frevious Standards			
	Adopted April 2014	Adopted 2000	ioi wathematics				
	Process Standards						
MA.PS.PS.1:	Mathematically proficient students start by explaining to	Connections	Make sense of problems and persevere in solving them.	IAS 2014 removes criteria involving a graphing calculator and			
Make sense of	themselves the meaning of a problem and looking for entry	Connecting mathematical concepts includes linking new ideas	· · · · · · · · · · · · · · · · · · ·	does not distinguish between younger and older students.			
problems and	points to its solution. They analyze givens, constraints,	to related ideas learned previously, helping students to see	themselves the meaning of a problem and looking for entry				
persevere in	relationships, and goals. They make conjectures about the		points to its solution. They analyze givens, constraints,				
solving them.	form and meaning of the solution and plan a solution	build upon each other. Major emphasis should be given to	relationships, and goals. They make conjectures about the				
_	pathway, rather than simply jumping into a solution	ideas and concepts across mathematical content areas that	form and meaning of the solution and plan a solution pathway				
	attempt. They consider analogous problems and try special	help students see that mathematics is a web of closely	rather than simply jumping into a solution attempt. They				
	cases and simpler forms of the original problem in order to	connected ideas (algebra, geometry, the entire number	consider analogous problems, and try special cases and				
	gain insight into its solution. They monitor and evaluate	system). Mathematics is also the common language of many	simpler forms of the original problem in order to gain insight				
	their progress and change course if necessary.	other disciplines (science, technology, finance, social science,	into its solution. They monitor and evaluate their progress				
	Mathematically proficient students check their answers to	geography) and students should learn mathematical concepts	and change course if necessary. Older students might,				
	problems using a different method, and they continually ask	used in those disciplines. Finally, students should connect	depending on the context of the problem, transform algebraic				
	themselves, "Does this make sense?" and "Is my answer	their mathematical learning to appropriate real-world	expressions or change the viewing window on their graphing				
	reasonable?" They understand the approaches of others to	contexts.	calculator to get the information they need. Mathematically				
	solving complex problems and identify correspondences		proficient students can explain correspondences between				
	between different approaches. Mathematically proficient		equations, verbal descriptions, tables, and graphs or draw				
	students understand how mathematical ideas interconnect		diagrams of important features and relationships, graph data,				
	and build on one another to produce a coherent whole.		and search for regularity or trends. Younger students might				
			rely on using concrete objects or pictures to help				
			conceptualize and solve a problem. Mathematically proficient				
			students check their answers to problems using a different				
			method, and they continually ask themselves, "Does this make				
			sense?" They can understand the approaches of others to				
			solving complex problems and identify correspondences between different approaches.				
			between different approaches.				
MA.PS.PS.2:	Mathematically proficient students make sense of quantities		2 Reason abstractly and quantitatively.	IAS 2014 is similar to common core, both expand upon IAS			
Reason abstractly	and their relationships in problem situations. They bring		Mathematically proficient students make sense of the	2000 by having the student decontextualize problems and			
and quantitatively.	two complementary abilities to bear on problems involving		quantities and their relationships in problem situations.	develop quantitative reasoning.			
	quantitative relationships: the ability to decontextualize—to		Students bring two complementary abilities to bear on				
	abstract a given situation and represent it symbolically and		problems involving quantitative relationships: the ability to				
	manipulate the representing symbols as if they have a life of		decontextualize—to abstract a given situation and represent it				
	their own, without necessarily attending to their		symbolically and manipulate the representing symbols as if				
	referents—and the ability to contextualize, to pause as		they have a life of their own, without necessarily attending to				
	needed during the manipulation process in order to probe		their referents—and the ability to contextualize, to pause as				
	into the referents for the symbols involved. Quantitative		needed during the manipulation process in order to probe				
	reasoning entails habits of creating a coherent		into the referents for the symbols involved. Quantitative				
	representation of the problem at hand; considering the units		reasoning entails habits of creating a coherent representation				
	involved; attending to the meaning of quantities, not just		of the problem at hand; considering the units involved;				
	how to compute them; and knowing and flexibly using		attending to the meaning of quantities, not just how to				
	different properties of operations and objects.		compute them; and knowing and flexibly using different				
1			properties of operations and objects.				





	Adopted April 2014 – Standards Correlation Guide Document 5-28-2014			
	Indiana Academic Standard for Probability and Statistics Mathematics Adopted April 2014	Indiana Academic Mathematics Standard Adopted 2000	Common Core State Standard for Mathematics	Differences From Previous Standards
MA.PS.PS.3: Construct viable arguments and critique the creasoning of others.	Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They analyze situations by breaking them into cases and recognize and use counterexamples. They organize their mathematical thinking, justify their conclusions and communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. They justify whether a given statement is true always, sometimes, or never. Mathematically proficient students participate and collaborate in a mathematics community. They listen to or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.	and they should use correct mathematical vocabulary. Students should write to explain answers, justify mathematical reasoning, and describe problem-solving strategies.  Mathematical Reasoning and Problem Solving In a general sense, mathematics is problem solving. In all of their mathematics, students use problem-solving skills: they choose how to approach a problem, they explain their reasoning, and they check their results. At this level, students	3 Construct viable arguments and critique the reasoning of others.  Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose.  Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.	IAS 2014 is similar to common core, both expand upon IAS 2000 by having students construct arguments , use counterexamples, and critique others arguments. IAS 2014 does not distinguish between younger and older students.
MA.PS.PS.4: Model with mathematics.	Mathematically proficient students apply the mathematics they know to solve problems arising in everyday life, society, and the workplace using a variety of appropriate strategies. They create and use a variety of representations to solve problems and to organize and communicate mathematical ideas. Mathematically proficient students apply what they know and are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	formulas, equations, graphs, and data displays. The concept of one-fourth may be described as a quarter, , one divided by four, 0.25, + , 25 percent, or an appropriately shaded portion of a pie graph. Higher-level mathematics involves the use of more powerful representations: exponents, logarithms, π,	4 Model with mathematics.  Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.	IAS 2014 has removed examples and does not distinguish between younger and older students.





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MA.PS.PS.5: Use appropriate tools strategically.	Adopted April 2014  Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Mathematically proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. Mathematically proficient students identify relevant external mathematical resources, such as digital content, and use them to pose or solve problems. They use technological tools to explore and deepen their understanding of concepts and to support the development of learning mathematics. They use technology to contribute to concept development, simulation, representation, reasoning, communication and problem solving.		5 Use appropriate tools strategically. Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.	IAS 2014 does not distinguish between younger and older students. Both IAS 2014 and CCSS expand upon IAS 2000 by having students consider more than just graphing.
MA.PS.PS.6: Attend to precision.	Mathematically proficient students communicate precisely to others. They use clear definitions, including correct mathematical language, in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They express solutions clearly and logically by using the appropriate mathematical terms and notation. They specify units of measure and label axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently and check the validity of their results in the context of the problem. They express numerical answers with a degree of precision appropriate for the problem context.	and they should use correct mathematical vocabulary. Students should write to explain answers, justify	6 Attend to precision.  Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.	IAS 2014 does not distinguish between younger and older students.





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MA.PS.PS.7: Look for and make use of structure.	Mathematically proficient students look closely to discern a pattern or structure. They step back for an overview and shift perspective. They recognize and use properties of operations and equality. They organize and classify geometric shapes based on their attributes. They see expressions, equations, and geometric figures as single objects or as being composed of several objects.		7 Look for and make use of structure.  Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7 × 8 equals the well remembered 7 × 5 + 7 × 3, in preparation for learning about the distributive property. In the expression x2 + 9x + 14, older students can see the 14 as 2 × 7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see 5 – 3(x – y)2 as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.		
MA.PS.PS.8: Look for and express regularity in repeated reasoning.	Mathematically proficient students notice if calculations are repeated and look for general methods and shortcuts. They notice regularity in mathematical problems and their work to create a rule or formula. Mathematically proficient students maintain oversight of the process, while attending to the details as they solve a problem. They continually evaluate the reasonableness of their intermediate results.		8 Look for and express regularity in repeated reasoning. Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through $(1, 2)$ with slope 3, middle school students might abstract the equation $(y-2)/(x-1)=3$ . Noticing the regularity in the way terms cancel when expanding $(x-1)(x+1), (x-1)(x2+x+1)$ , and $(x-1)(x3+x2+x+1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.	IAS 2014 has removed examples and does not distinguish between younger and older students.	
		Data Analysis			
MA.PS.DA.1:	PS.DA.1: Create, compare, and evaluate different graphic displays of the same data, using histograms, frequency polygons, cumulative frequency distribution functions, pie charts, scatterplots, stem-and-leaf plots, and box-and-whisker plots. Draw these with and without technology.	PS.1.1 Create, compare, and evaluate different graphic displays of the same data, using histograms, frequency polygons, cumulative frequency distribution functions, pie charts, scatterplots, stem-and-leaf plots, and box-and-whisker plots. Draw these by hand or use a computer spreadsheet program.	S-ID.1 Represent data with plots on the real number line (dot plots, histograms, and box plots).	IAS2014 Has Students integrate technology into the data analysis and graphing.	





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MA.PS.DA.2:	PS.DA.2: Compute and use mean, median, mode, weighted mean, geometric mean, harmonic mean, range, quartiles, variance, and standard deviation. Use tables and technology to estimate areas under the normal curve. Fit a data set to a normal distribution and estimate population percentages. Recognize that there are data sets not normally distributed for which such procedures are inappropriate.	PS.1.2 Compute and use mean, median, mode, weighted mean, geometric mean, harmonic mean, range, quartiles, variance, and standard deviation.  PS.2.8 Use and apply the normal distribution.	S-ID.4 Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.		
MA.PS.DA.3:	PS.DA.3: Understand the central limit theorem and use it to solve problems.	PS.2.9 Understand the central limit theorem and use it to solve problems.			
MA.PS.DA.4:	PS.DA.4: Understand hypothesis tests of means and differences between means and use them to reach conclusions. Compute and use confidence intervals to make estimates. Construct and interpret margin of error and confidence intervals for population proportions.	PS.3.2 Understand hypothesis tests of means and differences between means and use them to reach conclusions.	S-IC.4 Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.	IAS2014 Combines the IAS2000 and the CCSS	
MA.PS.DA.5:	PS.DA.5: Recognize how linear transformations of univariate data affect shape, center, and spread.			This standard is NEW	
MA.PS.DA.6:	PS.DA.6: Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities.		S-CP.4 Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities. For example, collect data from a random sample of students in your school on their favorite subject among math, science, and English. Estimate the probability that a randomly selected student from your school will favor science given that the student is in tenth grade. Do the same for other subjects and compare the results.	CCSS Gives specific examples of the types of problems to apply this standard	
MA.PS.DA.7:	PS.DA.7: Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation.		S-IC.2 Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation. For example, a model says a spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model?	CCSS Gives and specific example.	
MA.PS.DA.8:	PS.DA.8: Understand the meaning of measurement data and categorical data, of univariate and bivariate data, and of the term variable.			This standard is NEW	
MA.PS.DA.9:	PS.DA.9: Understand statistics and use sampling distributions as a process for making inferences about population parameters based on a random sample from that population.		S-IC.1 Understand statistics as a process for making inferences to be made about population parameters based on a random sample from that population.		
MA.PS.DA.10	PS.DA.10: Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.			This standard is NEW	
MA.PS.DA.11	PS.DA.11: Find linear models by using median fit and least squares regression methods to make predictions. Decide which among several linear models gives a better fit. Interpret the slope and intercept in terms of the original context. Informally assess the fit of a function by plotting and analyzing residuals.	PS.3.3 Use the principle of least squares to find the curve of best fit for a set of data.		IAS2014 Goes much further having students make predictions, use context, and residuals	





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MA.PS.DA.12	PS.DA.12: Evaluate reports based on data by considering the		S-IC.6 Evaluate reports based on data.	IAS2014 goes into much more details on how the students
	source of the data, the design of the study, the way the data			should evaluate the reports based on the data
	are analyzed and displayed, and whether the report confuses			should evaluate the reports based on the data
	correlation with causation. Distinguish between correlation			
	and causation.			
		Experimental Desi	gn	
MA.PS.ED.1:	PS.ED.1: Formulate questions that can be addressed with			This standard is NEW
	data. Collect, organize, and display relevant data to answer			
	the questions formulated.			
MA.PS.ED.2:	PS.ED.2: Use election theory techniques to analyze election	DM.5.1 Use election theory techniques to analyze election		IAS2014 Combines the two IAs200 standards
	data. Use weighted voting techniques to decide voting	data.		
	power within a group.			
		DM.5.2 Use weighted voting techniques to decide voting		
		power within a group.		
MA.PS.ED.3:	PS.ED.3: Construct simulated sampling distributions of		S-MD.4 Develop a probability distribution for a random	CCSS Gives an example of what this standards is expecting
	sample proportions and use sampling distributions to		variable defined for a sample space in which probabilities are	students to show
	identify which proportions are likely to be found in a sample		assigned empirically; find the expected value. For example,	
	of a given size.		find a current data distribution on the number of TV sets per	
			household in the United States, and calculate the expected	
			number of sets per household. How many TV sets would you	
			expect to find in 100 randomly selected households?	
			,	
MA.PS.ED.4:	PS.ED.4: Use simulations to explore the variability of sample			This standard is NEW
	statistics from a known population and to construct			
	sampling distributions.			
MA.PS.ED.5:	PS.ED.5: Model and solve real-world problems using the			This standard is NEW
	geometric distribution or waiting-time distribution, with or			
	without technology.			
MA.PS.ED.6:	PS.ED.6: Model and solve real-world problems involving			This standard is NEW
	patterns using recursion and iteration, growth and decay,			
	and compound interest.			
MA.PS.ED.7:	PS.ED.7: Understand and apply basic ideas related to the			This standard is NEW
	design, analysis, and interpretation of surveys and sampling,			
	such as background information, random sampling, causality			
	and bias.			
MA.PS.ED.8:	PS.ED.8: Understand how basic statistical techniques are			This standard is NEW
	used to monitor process characteristics in the workplace.			
MA.PS.ED.9:	DC ED Out Independ the differences among verifications			This standard is NEW
	PS.ED.9: Understand the differences among various kinds of			This standard is NEW
	studies and which types of inferences can legitimately be drawn from each.			
	Jurawii iroiii each.	Probability		
MA.PS.P.1:	PS.P.1: Understand and use the addition rule to calculate	PS.2.2 Understand and use the addition rule to calculate		
	probabilities for mutually exclusive and non-mutually	probabilities for mutually exclusive and non-mutually		
	exclusive events.	exclusive events.		
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MA.PS.P.2:	PS.P.2: Understand and use the multiplication rule to			This standard is NEW
	calculate probabilities for independent and dependent			
	events. Understand that two events A and B are			
	independent if the probability of A and B occurring together			
	is the product of their probabilities, and use this			
	characterization to determine if they are independent.			
MA.PS.P.3:	PS.P.3: Understand the multiplication counting principle,	PS.2.1 Understand the counting principle, permutations, and	S-CP.9 Use permutations and combinations to compute	IAS2014 Expects students to use simulations and technology
	permutations, and combinations; use them to solve real-	combinations and use them to solve problems.	probabilities of compound events and solve problems.	to solve the problems
	world problems. Use simulations with and without			
	technology to solve counting and probability problems.	DM.1.2 Use the fundamental counting principle to find the		
		number of outcomes in a problem situation.		
MA.PS.P.4:	PS.P.4: Calculate the probabilities of complementary events.			This standard is NEW
MA.PS.P.5:	PS.P.5: Calculate the expected value of a random variable;	PS.2.7 Compute and interpret the mean and variance of a	S-MD.2 Calculate the expected value of a random variable;	
	interpret it as the mean of the probability distribution.	probability distribution.	interpret it as the mean of the probability distribution.	
MA.PS.P.6:	PS.P.6: Analyze decisions and strategies using probability		S-MD.7 Analyze decisions and strategies using probability	
IVIA.PS.P.G.			concepts (e.g., product testing, medical testing, pulling a	
	concepts. Analyze probabilities to interpret odds and risk of events.		hockey goalie at the end of a game).	
MA.PS.P.7:		PS.2.6 Use discrete random variables and probability	S-MD.1 Define a random variable for a quantity of interest by	
WIA.F 3.F.7.		distributions, including the binomial and geometric	assigning a numerical value to each event in a sample space;	
	graph the corresponding probability distribution using the	distributions.	graph the corresponding probability distribution using the	
	same graphical displays as for data distributions.	uistributions.	same graphical displays as for data distributions.	
	same grapinear displays as for data distributions.		same grapmour displays as for data distributions.	
MA.PS.P.8:	PS.P.8: Develop a probability distribution for a random	PS.2.6 Use discrete random variables and probability	S-MD.1 Define a random variable for a quantity of interest by	IAS2014 Expects students to compute and interpret the values
	variable defined for a sample space in which theoretical	distributions, including the binomial and geometric	assigning a numerical value to each event in a sample space;	
	probabilities can be calculated; Compute and interpret the	distributions.	graph the corresponding probability distribution using the	
	expected value of random variables.		same graphical displays as for data distributions.	
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MA.PS.P.9:	PS.P.9: Derive the binomial theorem by combinatorics. Use combinatorial reasoning to solve problems.	DM.1.3 Use combinatorial reasoning to solve problems.		IAS2014 Has the students derive the binomial theorem
MA.PS.P.10:	PS.P.10: Describe events as subsets of a sample space (the		S-CP.1 Describe events as subsets of a sample space (the set	
	set of outcomes) using characteristics (or categories) of the		of outcomes) using characteristics (or categories) of the	
	outcomes, or as unions, intersections, or complements of		outcomes, or as unions, intersections, or complements of	
	other events.		other events ("or," "and," "not").	
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		Unaligned	Unaligned	
		Indiana Academic Mathematics Standard	Common Core State Standard	
		Adopted 2000	for Mathematics	
		PS.2.5 Understand conditional probability and Bayes'		
		Theorem and use them to solve problems.		
		PS.3.1 Compute and use confidence intervals to make		
		estimates.		





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